(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
26 July 2007 (26.07.2007)

PCT

(10) International Publication Number
WO 2007/083138 A1

(51) International Patent Classification:
G01N 21/64 (2006.01) *G01N 33/58* (2006.01)

(21) International Application Number:
PCT/GB2007/000174

(22) International Filing Date: 19 January 2007 (19.01.2007)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0601183.7 20 January 2006 (20.01.2006) GB

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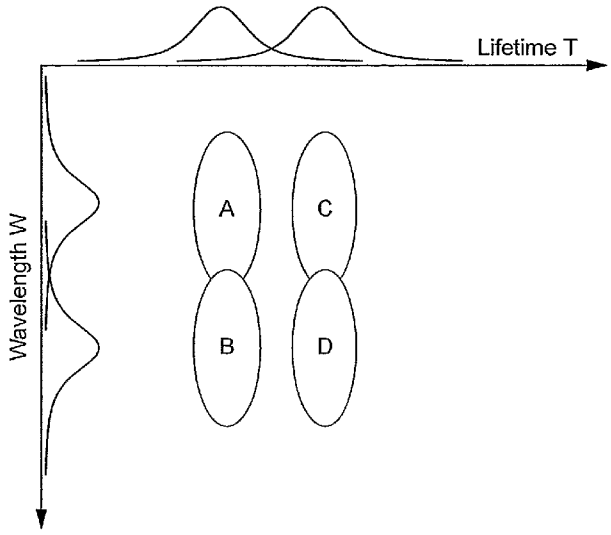
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(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States *(unless otherwise indicated, for every kind of regional protection available)*: ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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(54) Title: IMPROVEMENTS IN AND RELATING TO IMAGING OF BIOLOGICAL SAMPLES



(57) Abstract: Methods and apparatus relating to the imaging of biological samples are provided. More particularly, they relate to the detection of light emanating from fluorescent species present in a sample in order to study the structure and dynamics of such a sample. Such a method of analysis comprises irradiating the sample with a pulse of excitation energy causing fluorescent species in the sample to fluoresce; detecting light emanating from the sample during a predetermined period of time after the pulse; generating and storing data recording at least the wavelength of the detected light against time; and analysing the data with reference to the respective lifetimes of the fluorescent species to detect the presence of the respective emissions from three or more different fluorescent species which emit light simultaneously during at least part of said predetermined period, which are indistinguishable from each other on the basis of their wavelength or lifetime alone.

WO 2007/083138 A1

Published:

— *with international search report*

— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

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